

1 **SYSTEM AND METHOD FOR PARALLEL PRIMARY AND**
2 **SECONDARY BACKUP READING IN RECOVERY OF**
3 **MULTIPLE SHARED DATABASE DATA SETS**
4 **ABSTRACT OF THE DISCLOSURE**

5 See
6 AI The present invention is a recovery utility apparatus for expediting recovery time
7 during failure of one or more database data sets. A backup copy restore utility reads one
8 or more backup copies of the database data sets in parallel. Simultaneously, a change
9 accumulation manager reads one or more CADSs in parallel. Each CADSs associated
10 with one or more database data sets requiring recovery is only read once into memory. In
11 this manner, parallel execution of the read process reduces recovery time. To further
12 expedite recovery, as the backup copy is written to the restored database, records from
13 the CADS are merged with the restored database as they are needed and as they become
14 available.

15 The change accumulation manager reads only the detail records which have been
16 committed and ignores the spill records to eliminate the need for completing each
17 incomplete CADS for recovery. A log manager reads one or more logs to derive the
18 updates in the spill records which are subsequent to a merge end point. Reading the logs
19 confirms which updates in the spill records have been committed and may be merged with
20 the restored database. The logs are read in parallel to reduce read time and are merged
21 with the restored database before the read process is complete.